

	E Tender no-16/LR /RCC ROAD/2018				
Sub:Construction of RCC Road for Lignite weigh Bridge at GMDC Lignite Project Rajpardi					
Schedule of Quantity					
Sr.No	Description	Qty.	Per	Rate	Amount
1	Box cutting the road surface to proper slope and camber for making a base for road working incl. removing the excavated stuff and depositing on the road side slopes as directed for all lead including making good the bottom with rolloing by using poer roller of minimum 8 to 10 MT capcity with watering, consoldation, machineires, tools, tackles, manpoer, labours etc. complete.	4639.93	Cum	0	0
2	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming & watering with machineires, tools, tackles, manpoer, labours etc. complete.	91.41	Cum	0	0
3	Supplying & spreading of coarse clean sharp sand for crust in layers ,including transpoertation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	576.00	Cum	0	0
4	Construction of Granular sub base (grade-II) by providing well graded material mixing in a mechanical mix plant at OMC carraige of mixed material to work at site, spreading in uniform layer (two layers) with motor grader on prepared surface and compacting with smooth wheel roller to 80/100 KN static weight achieve desired density technically complete for grading complete as per clause 401 of MORTH. As per detail specification mentioned in technical bid..	864.00	Cum	0	0
5	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, spreading the concrete with shovels, rakes and levelling to garde and camber, compacting with 8-10 tonnes vibratory roller, finishing and curing including finished in a continuous operation for completion of one panel, transportation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	432.00	Cum	0	0
6	Providing and laying HDPE sheet of 75-100 micron thick and provide lap of 0.3m length in longitudinal and transverse direction of approved quality as directed by engineer in charge.	2880.00	Sqmt	0	0

7	Construction of un-reinforced, dowel jointed, Controlled cement concrete pavement over a prepared sub-base of M-40 with 53 grade cement, coarse and fine aggregate confirming to IS:383, maximum size of coarse aggregate not exceeding 25mm, mixed in batching plant or in well equipped mixer machine as per approved mix design, transported to site, laid with trimix vacume de watering process using vacume dewatering machine , mechanical vibrator , mechanical floter , mechanical Towel for finishing by mixture as directed including cutting grooves of size etc. as per drawing and finished in a continuous operation for completion of one panel(4 mt X 4Mt, however dimension will be as per the drawing) including provision of contraction, expansion, construction and longitudinal joints, joint filler as per the drawings, seperation membrane, sealent primer, joint sealent, bonding strip, cost of admixture as approved, curing compound, formwork, rails, guidewires, finishing to lines and grades as per drawings as specified in clause 602 of MORTH including the cost of all material, labour charges, transportation and conveyance, loading and unloading etc. complete with all lead and lift as per specification and directed by the engineer. (Min. Cement consumption:400 Kg/Cmt)	864.00	Cum	0	0
8	Providing and fixing in position mild steel dowel bar of 32mm diameter and 500 mm length at 200 mm c/c in transverse direction at expansion joint which is provided at 4.0 m c/c longitudinally with plastic cap of 3 to 5 mm thick black coloured as a cover of dowel bar which sustain the movement of dowel bar including cutting, placing of same, with all machinery, tools, tackles, labours etc. complete..	1800.00	Rmt	0	0
9	Providing and fixing in position TMT tie bar of 12mm diameter and 500mm length at 430 mm c/c in longitudinal direction as per IS 1786 (Latest) including cutting, placing of same, with all machinery, tools, tackles, labours etc. complete.	372.13	Kg	0	0
10	Providing and Casting in situ controlled reinforced cement concrete M200 Including necessary shuttering ,& including reinforcement laying,vibrating,ramming,curing etc.complete as per aproved Design. Having Bottom widht of 0.6 mt.upto 0.1 Mt.Top width of 0.45 mt. & ht. is 0.65 Mt. Having 1.5 Mt. Length(NJB) including transpoertation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.. (To be provided alternately)	120.00	Nos.	0	0
11	Supplying and Fixing reinforced concrete heavy duty non- pressure pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying(To level of slopes of I.S. 458 / 1971 Class NP4 casted by vertically vibrated technology of following internal diameter 300mm dia. including transpoertation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	60.00	Rmt	0	0
12	Supplying and Fixing reinforced concrete heavy duty non- pressure pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying(To level of slopes of I.S. 458 / 1971 Class NP4 casted by vertically vibrated technology of following internal diameter 600mm dia. includingtranspoertation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	60.00	Rmt	0	0
13	Providing Pre-moulded asphalt filler joints as per drawings For 12mm width including with labours, tools, tackles etc. as per direction of Engineer incharge & As per detail specification mentioned in technical bid...	21.60	Sqmt	0	0
14	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in Foundation and Plinth including transpoertation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	60.09	Cum	0	0

15	Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork for reinforced concrete work for Walls, Raft etc.	211.68	Cum	0	0
16	Providing, cutting, placing of FE 415, reinforcement steel of all diameter confirming relevant IS including bending , binding with 18 gauge enameled wire & placing in position complete up to any height, including providing of all laps & charirs etc. complete.	5.81	MT	0	0
17	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete including base of of 75 mm thick PCC 1:4:8 to place the precast kerbstone with transpoertation, loading, unloading, labours, tools, tackles etc. as per direction of Engineer incharge.	720.00	Rmt	0	0
18	Constructing Manhole with R.C.C. top slab with provision of placing of cover of size 560mm X 560mm with providing of hook for placing & opening in M-400 grade concrete using 20mm nominal size & down grade aggregate and reinforcement at minimum 50kg/Cmt, with foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6- Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:5 (1-Cement : 5-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including (A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5- Coarse sand) including material, transportation,loading, unloading, ramming with labours, tools, tackles etc. as per direction of Engineer incharge.	7.00	Each	0	0
	Total				

